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### **ABSTRACT OF THE DISCLOSURE**

A measuring method for recording and evaluating photograms of moving surfaces similar to how they are obtained using interferometric methods or photogram projection. The temporally changing photograms can be evaluated using a point-by-point determination of amplitude such that individual recordings for producing image sequences are carried out in a manner which is synchronous to the surface movement and/or temporally average recordings of the surface movement are carried out for different excitation parameters. In addition, a deformation of the surface or a temporal change of the deformation is determined from the position of the strips in the image sequences.